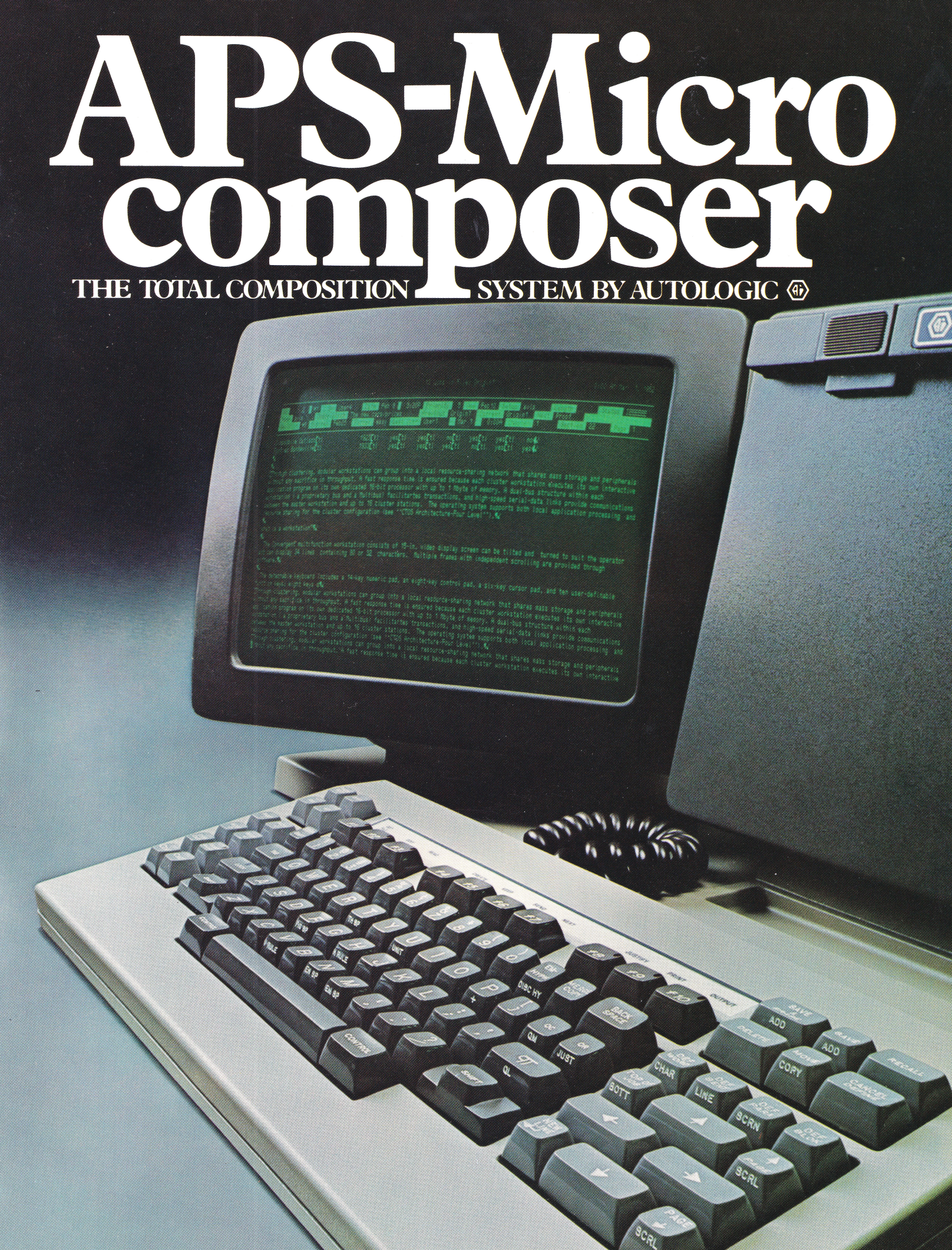
APS-Micro composer

THE TOTAL COMPOSITION SYSTEM BY AUTOLOGIC



A small front e

It's as smart as a big, expensive system. But Autologic's APS-Microcomposer is compact and economical. Built to drive our top-rated APS®-Micro 5 and APS-5 typesetters, it gives you advantages you'd normally find only in systems costing many times more.

Having brought you the world's best typesetter, Autologic has done it again with the APS-Microcomposer. We now offer a turn-key composition system, with the confidence and convenience provided by a single vendor.

Knows Every Operator Personally

When an operator "signs on", the APS-Microcomposer automatically adapts to that

nd system that thinks big.

individual, according to a "User Profile" you've set up in advance.

The system supervisor simply fills out an on-screen form, defining each user's file access, security code, skill levels, routing abilities, and priorities.

Your user-friendly APS-Microcomposer takes it from there. Skilled markup people would be authorized to create formats, compose, and edit. Only authorized users would be allowed to change or typeset jobs. Commands may be shown on-screen for compositors, while codes can be suppressed for easy reading or keyboarding of text.

Special user-programmable keys, providing complex functions in one keystroke, can be programmed differently by and for each user.

In effect, everyone who uses the APS-Microcomposer has a "personalized" system, geared to the right level of difficulty and responsibility. It's easy to learn with a minimum of training. In a pinch, the "default" mode lets untrained operators compose text without inputting commands. The system just "defaults" to one of your standard formats.

A Building Block Approach

Start with a basic system, including APS-Microcomposer composition software, two wide-screen work stations, and a compact central cabinet with impressive job storage capacity on a fixed disk. Also a floppy disk for archiving, backup, and loading of optional programs.

Add capacity any time, as you need it. More work stations. Up to 6 times as much disk storage. A dot matrix proof printer. Soon you'll be able to talk to word processing systems. And compose in a variety of foreign languages.

Interface the APS-Microcomposer with your choice of a 45, 57, or 70 pica APS-Micro 5 typesetter. Or, move to an APS-5, the world's fastest typesetter.

Ruthless Efficiency, Human Engineering

The easy-to-learn system is designed for maximum efficiency. To load font widths, just use your Autologic font width diskette. No need to buy a costly mag tape unit or spend days enter widths by hand.

Job processing is incredibly fast, for quick output to our high-speed APS typesetters. System enhancements will include the added capability of background processing which will enable you to process one job and output another at the same time, without tying up the terminal.

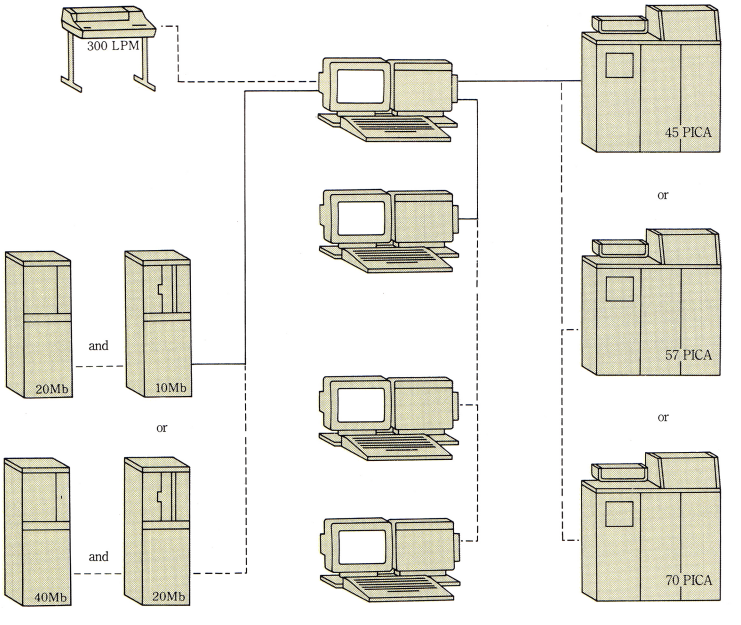
Meanwhile, all features are ergonomically designed. Video terminals are easy to read, and swivel for personalized adjustment. Clusters of composition and editing keys are conveniently placed around the standard typewriter keyboard.

Basic APS Microcomposer system:

Two terminals (includes master work station); one basic disc drive/ storage cabinet containing a .5 Mb floppy disc, 10 Mb Winchester disc, and controllers; and an APS-Micro 5 typesetter.

Options and upgrades
Two additional terminals (4 total); 300 line per minute matrix printer option; disc storage expansions: upgrade the standard 10 Mb to 20 Mb; additional cabinet with one or two 20 Mb disc drives for a maximum of 60 Mb of Winchester disc storage.

Optional typesetter upgrades
"Basic" 45 pica APS-Micro 5 may be upgraded to 57 or 70 pica line measures.



Job managem be such a job.

With manual job control, snags are unavoidable. Even in the most streamlined operation.

Manual filing, retrieving, routing and handling is inefficient, costly and the cause of many errors.

When you upgrade to an Autologic system, all of your files are securely at your fingertips, to be called up at any moment.

Each job is completely under system control, eliminating procedural errors and assuring efficient, timely processing and completion.

The Automated Job Ticket

A simple heading form, filled out for each job, enables you to electronically store, track, and access information about each job. Instantly.

The "Job Profile" tells you the job number, who created it, number of revisions, status, the job history, level of complexity, priority level, and, of course, the all-important due date. The text of the job is stored with the job profile.

All your data is concentrated in one central, electronic "file cabinet", and can be cross referenced in a number of different ways. Call up a directory list of any jobs in the system. You know the information is safe, stored on a Winchester-type hard disk; no risk of losing hundreds of hours of keyboarding due to a damaged tape or diskette.

ent shouldn't

Anybody in your shop can easily process jobs. Of, if you prefer, use our various levels of security to carefully control job and system access.

Taking the Legwork Out of Job Routing

Jobs in the APS-Microcomposer system move electronically from file to file just as a job moves from department to department in a composing room. You improve productivity, because people are no longer running from station to station. Priorities are centrally defined and updated. An operator's work station displays the next job to be worked on; no need for time lost asking a supervisor "what next?"

For example, a typical file routing scheme might be:

- From Input file to Markup file
- From Markup to Proof
- Held in Proof until copy is approved and corrections are made
- Routed to Author's Alterations file while operator makes changes marked on first proof
- Second Proof file for final approval
- From Proof file to Output file, where job is held for typesetting
- If permanent storage is required, jobs can be moved to Archive.

Your Way is Our Way

You won't need to adapt your work flow and administrative mechanisms to our system. The APS-Microcomposer's file management system is so sophisticated that you can structure it to follow your current administrative procedures.

Identify files by any name you want. Segregate them however you please. You're not restricted. Call up jobs by name or number. You'll know at any time how many jobs are in a given file.

Do you want the chapters of a book (or spreads of a brochure) to be stored as separate jobs, or as a single job? In an inplant operation, do jobs from different departments have different security-sensitivity? No problem. Using simple menu-formats, just tell the system how you want access to be limited.

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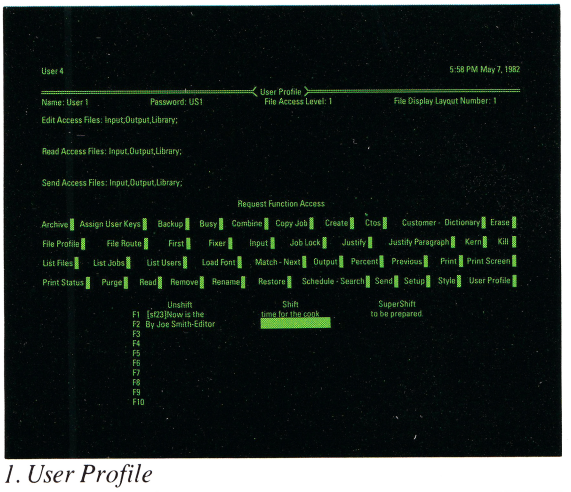
1. User Profile: Gives system supervisor a means of creating for each user: priority level, level of complexity, level of security, and user identification.

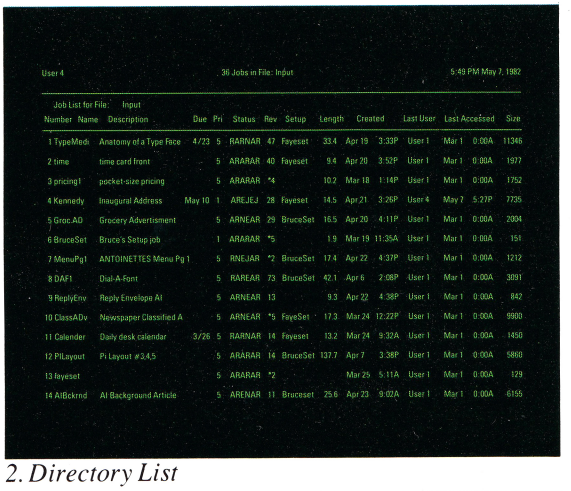
2. Directory List: Organizes data base for logical access. Shows all jobs listed in a given file, so user or supervisor can go back and look at any given job.

3. System Default Profile: Describes how the system should react when specific typesetting information is not provided within the job itself.

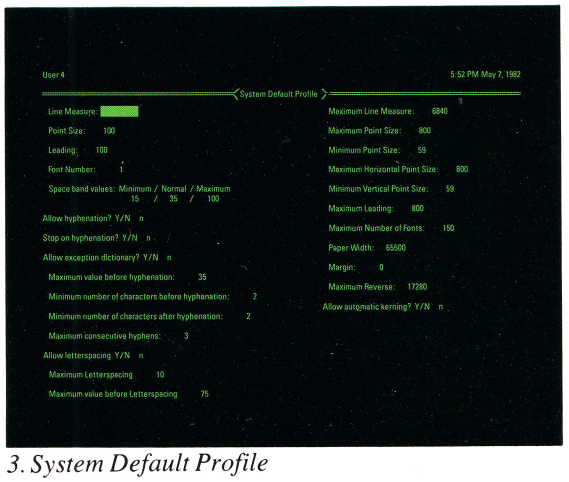
4. List of Commands: Any operator may request a display of all commands and their definitions.



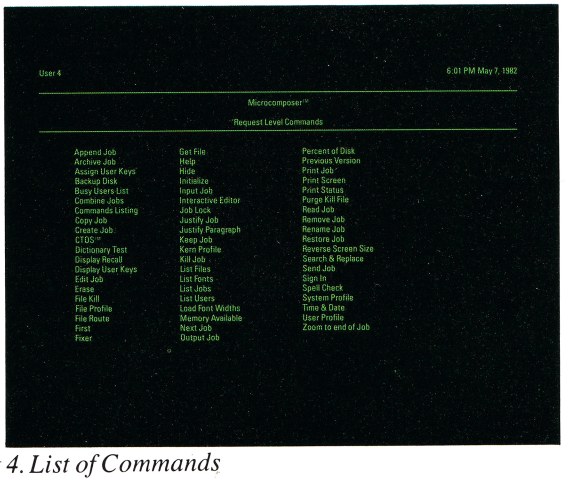
1. User Profile



2. Directory List



3. System Default Profile



4. List of Commands

Compose. Edit. with Autologic.

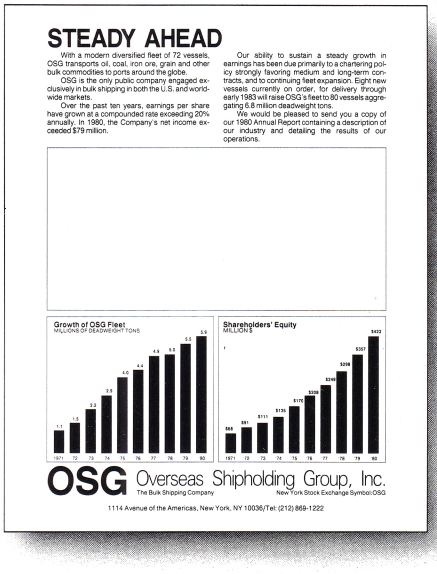
Our editing and composition programs offer state-of-the-art capabilities in interactive text manipulation.

Time is of the Essence

You'll find that Autologic's composition/editing features result in faster, more efficient production.

The user-programmable keys in multiple levels save time by letting you consolidate a series of commands into one keystroke. Program a key to represent often-used commands or phrases. A powerful search and replace function allows either discrete or global changes.

Frequently-used blocks of text can be saved, labeled as a single letter or string, and recalled, reducing input key-



Typeset. All

strokes. Blocks of text can be saved and recalled in an almost unlimited number of ways. Once blocks are defined, they can be saved overnight, and automatically recalled whenever that user signs back on the system.

Move through a job in a variety of ways. Scroll from top to bottom or the reverse. Move a page at a time, or a line at a time. Quickly reach defined parts of the text, such as screen lines, sentences, or paragraphs.

The APS-Microcomposer accommodates the full range of measurement standards: Picas, Points, Didots, Ciceros, Metric, and inches.

We Speak Your Language

The APS-Microcomposer system is based on easy-to-learn mnemonic-based coding. For example, "CC" means change column, permitting you to specify in a single command the four parameters that define a column of type. "CP" can be used to change only the point size; and so on.

As an option, our powerful interactive H&J program provides you with a very large total dictionary, instead of the typical exception word dictionary. Most systems use logic rules for word breaks, aided by an exception word list. The APS-Microcomposer refers to the whole dictionary for the best word break.

The dictionary also will check spelling and can be taught how to spell new words such as proper names.

Options are also available for foreign language composition.

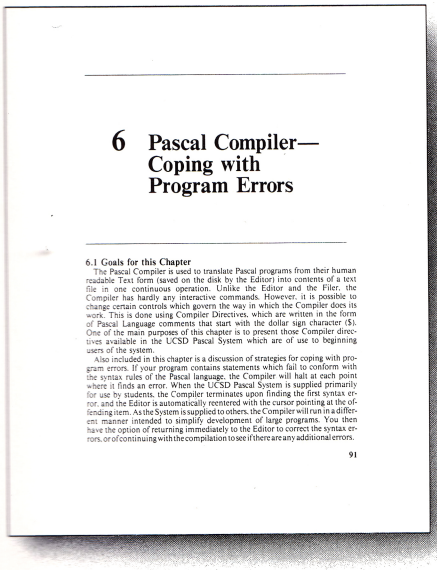
Whatever Your Output

The flexible APS-Microcomposer is designed to apply to a wide variety of printing and publishing operations.

Powerful codes simplify the composition of tabular material. Boxes and rules can be created with relatively little command entry. Automatic tab commands save the operator from making additional tab calculations.

A powerful format capability causes formats to be executed after a defined number of lines has been composed. This is useful for setting cut runarounds, dropped initials, and even designating galley lengths. You can give formats alphanumeric names which allow you to make a logical association with the actual job; no obscure codes.

Output is easily directed to your high-speed APS typesetter by a single command.



6 **Pascal Compiler—Coping with Program Errors**

6.1 Goals for this Chapter

The Pascal Compiler is used to translate Pascal programs from their human readable Text form (saved on the disk by the Editor) into contents of a text file in one continuous operation. Unlike the Editor and the Filer, the Compiler has hardly any interactive commands. However, it is possible to change certain controls which govern the way in which the Compiler does its work. This is done using Compiler Directives, which are written in the form of Pascal Language comments that start with the dollar sign character ($). One of the main purposes of this chapter is to present those Compiler directives available in the UCSD Pascal System which are of use to beginning users of the system.

Also included in this chapter is a discussion of strategies for coping with program errors. If your program contains statements which fail to conform with the syntax rules of the Pascal language, the Compiler will halt at each point where it finds an error. When the UCSD Pascal System is supplied primarily for use by students, the Compiler terminates upon finding the first syntax error, and the Editor is automatically reentered with the cursor pointing at the offending item. As the System is supplied to others, the Compiler will run in a different manner intended to simplify development of large programs. You then have the option of returning immediately to the Editor to correct the syntax errors, or of continuing with the compilation to see if there are any additional errors.

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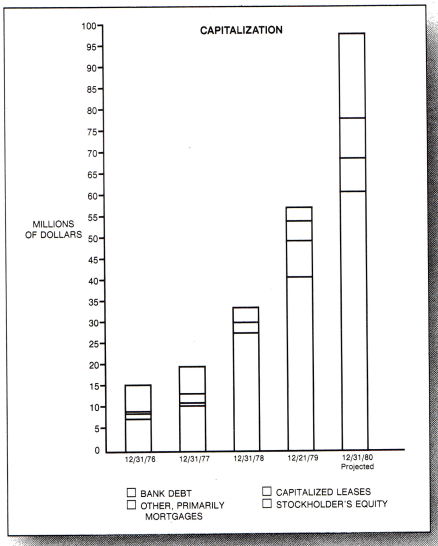

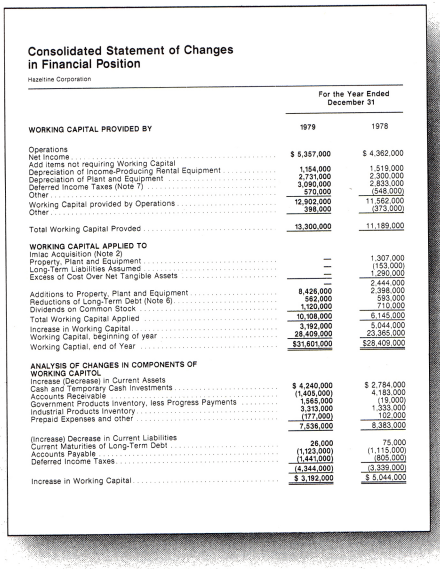

Consolidated Statement of Changes in Financial Position

Hazeltine Corporation

	For the Year Ended December 31	
	1979	1978
WORKING CAPITAL PROVIDED BY		
Operations		
Net Income	$ 5,357,000	$ 4,362,000
Add Items not requiring Working Capital		
Depreciation of Income-Producing Rental Equipment	1,154,000	1,519,000
Depreciation of Plant and Equipment	2,731,000	2,300,000
Deferred Income Taxes (Note 7)	3,090,000	2,833,000
Other	570,000	(548,000)
Working Capital provided by Operations	12,902,000	11,562,000
Other	398,000	(373,000)
Total Working Capital Provded	13,300,000	11,189,000
WORKING CAPITAL APPLIED TO		
Imiac Acquisition (Note 2)	—	1,307,000
Property, Plant and Equipment	—	(153,000)
Long-Term Liabilities Assumed	—	1,290,000
Excess of Cost Over Net Tangible Assets	—	2,444,000
Additions to Property, Plant and Equipment	8,426,000	2,398,000
Reductions of Long-Term Debt (Note 6)	562,000	593,000
Dividends on Common Stock	1,120,000	710,000
Total Working Capital Applied	10,108,000	6,145,000
Increase in Working Capital	3,192,000	5,044,000
Working Capital, beginning of year	28,409,000	23,365,000
Working Capital, end of Year	$31,601,000	$28,409,000
ANALYSIS OF CHANGES IN COMPONENTS OF WORKING CAPITOL		
Increase (Decrease) in Current Assets		
Cash and Temporary Cash Investments	$ 4,240,000	$ 2,784,000
Accounts Receivable	(1,405,000)	4,183,000
Government Products Inventory, less Progress Payments	1,565,000	(19,000)
Industrial Products Inventory	3,313,000	1,333,000
Prepaid Expenses and other	(177,000)	102,000
	7,536,000	8,383,000
(Increase) Decrease in Current Liabilities		
Current Maturities of Long-Term Debt	26,000	75,000
Accounts Payable	(1,103,000)	(1,115,000)
Deferred Income Taxes	(1,441,000)	(805,000)
	(4,344,000)	(3,339,000)
Increase in Working Capital	$ 3,192,000	$ 5,044,000

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